

Mold The Vehicle Bodies then Design and Build the Frame and Power Train



KELVIN® Racer Mold

Vehicle Mold

Pick-Up Truck Mold

Molded Pick-Up Truck with Vehicle Parts Bulk Pack

KELVIN® Resin Molds

Form a vehicle body with one of these resin molds and then decorate it. Requires vacuum former.

- 570124 Vehicle Model Mold\$75
- 570125 KELVIN® Racer Mold\$75
- 570126 Pick-up Truck Model Mold.....\$75

KELVIN® Vehicle Parts Bulk Pack

Build a vehicle and design your own power train using the KELVIN® pulley or gear pack. Kit includes a wood base, wheels, axles, plus motor, switches, battery holder, pulley pack, gear pack, and assorted colors of plastic sheets.

- 842015 Bulk Pack for 20\$145

KELVIN® EZee™ Plastic Former

Designed for ease of use in schools! The 10 x 14 in. material area is large enough for forming dragster models, car bodies, lettering for signs, game parts, masks, boat hauls, etc.

- 841970 110V - Requires Shop Vacuum\$995
- 841983 110V with Power Suction\$1,295
- 842036 220V w/ Direct Vacuum Suction\$1,995

Polystyrene Sheets

For use with vacuum former. 0.020 to 0.060 in. thick.

- 750225 Asstd. Colors, 14 x 10 in., 25 Sheets\$29.95
- 750226 Clear, 14 in. x20 in., 10 Sheets\$29.95
- 570108 Asstd. Colors, 14 x 20 in., 65 sheets.....\$99.95

KELVIN®
StyroDesigner™

The best tool for shaping a variety of foam products, such as foam boards and blanks. Also cuts recycled plastic soda bottles. Both versions feature three levels of heat control and a tilting arm that cuts foam at angles.

KELVIN®
Industrial StyroDesigner™

- Overall Unit Height: 13 in.
- Foam Cutting Table: 15-3/4 x 19-7/8 in.
- Wire to Arm Depth: 11-1/4 in.
- Height of the Cutting Wire: 7-5/8 in.

840867\$195 or \$185 ea./3+

Nichrome Wire

10 feet lengths.
330338 24 Ga.....\$6.95
330340 18 Ga...\$17.95



Great For Cutting Foam Products!

KELVIN®
Economy StyroDesigner™

- Overall Unit Height: 11-1/4 in.
- Foam Cutting Table: 11-3/4 x 16 in.
- Wire to Arm Depth: 15-1/8 in.
- Height of the Cutting Wire: 6-1/8 in.

740110\$155 or \$145 ea./3+

Ideal for model planes and other projects.

Jumbo Foam Trays
12 x 16 x 5/8 in.. 50 trays.
750053, \$38.95

KELVIN® Molding & Casting with Urethane Resins

Expand your plastics and manufacturing program with the introduction of urethane mold making and resin casting. This lab pack provides materials and detailed instructions that challenge your students to design and create a model, make a urethane elastomer mold of that model and cast the mold using urethane resin. Sample designs can include monograms, plaques, jewelry and sculpture.

Materials included:

- [2] Pieces Polystyrene Foam Board (1 x 24 x 24 in.)
- Half-Gallon Quick Cast Resin
- [2] Quarts Urethane RTV Resin
- [5] Molding Waxed Containers
- [1] Can Mold Release Parting Compound
- [2] Measuring Containers 250 ml
- Instructions

570133 Lab.....\$295

Teacher Demo Kit

Demo kit includes: Quick Cast Resin (1 qt.), Urethane RTV Resin (1 qt.), [5] Molding Waxed Containers, a can of Mold Release Parting Compound, [2] Measuring Containers (250 ml) and Instructions.

570137\$125



Per Sheet Price As Low As

\$4.95



Foam Sheets

Cut white foam with utility knife, hot knife or KELVIN® Foam Cutters. ★ **Oversized Shipping Charges Apply.**

- 750066 1 x 12 x 36 in., ★, 5 Sheets.....\$33.95
- 750067 2 x 12 x 36 in., ★, 5 Sheets.....\$61.95
- 750068 3 x 12 x 36 in., ★, 5 Sheets.....\$87.98



KELVIN®
Hand Held Foam Cutter

An easy and portable way to cut foam. Foam cutter includes power supply.
842117...\$79.95 or \$76.95 ea./3+ or \$74.95 ea./10+

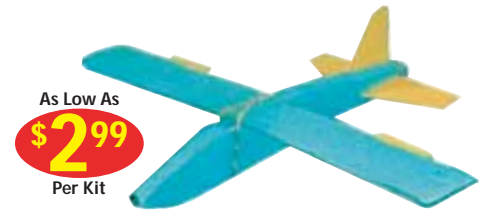


KELVIN® Foam Car Kit

Design, shape, assemble and paint your foam into a car! Foam is easy to cut, shape and decorate. Includes: [4] wheels, [2] axles, straw, wood base and foam block (2 x 2-1/2 x 8 in.). Shaping and assembly required.

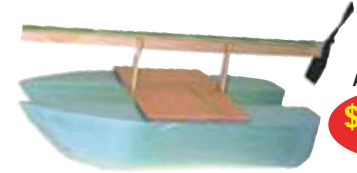
842386\$9.95 or \$8.95 ea./10+
842387 Bulk Pack of 10.....\$79

Shape Your Foam However You Want!



As Low As
\$2.99
Per Kit

KELVIN® Advanced Foam Glider Bulk Pack, 280611, Class Pack of 20 Kits, \$59.95



As Low As
\$4.95
Per Kit

KELVIN® Pontoon Boat Bulk Pack 842406, Class Pack of 20 Kits, \$99

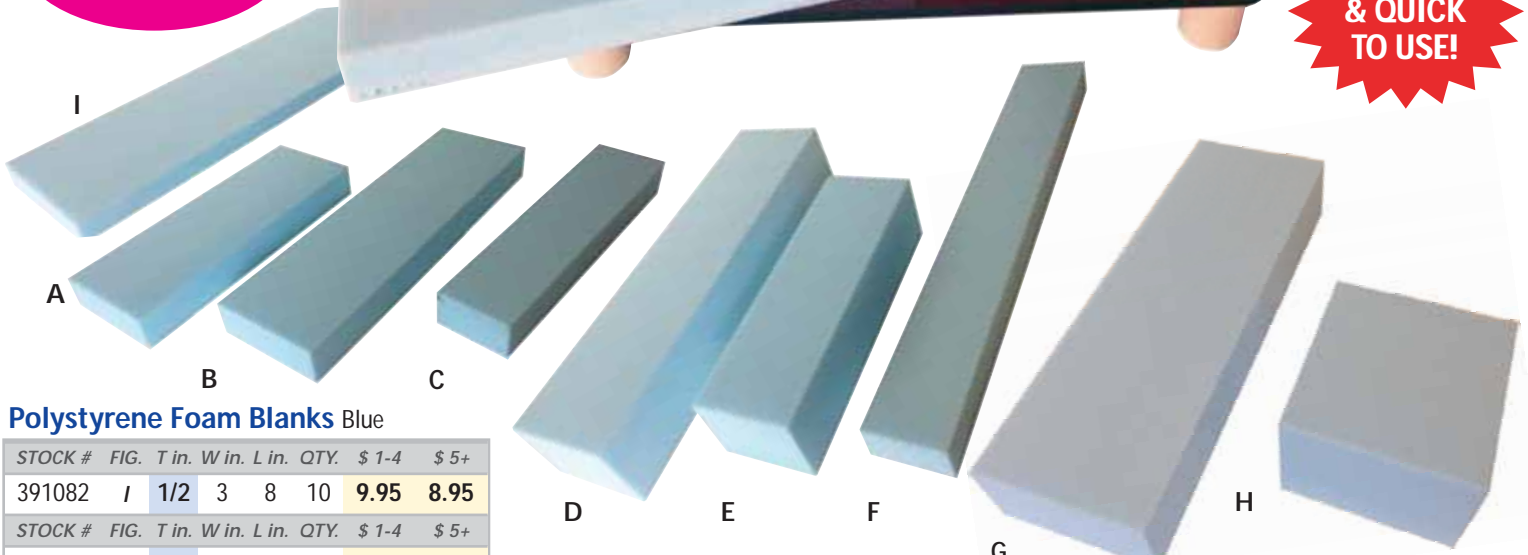
KELVIN® Economy Foam Cutter

Features acrylic table with an adjustable wire cutting angle that's simple and quick to set! It's a perfect machine for modeling design ideas and hobbyists, at an affordable price! One level of heat. Includes wall adapter.

841982\$89.95 or \$87.95 ea./3+
or \$85.95 ea./10+

CAUTION:
Hot Wire! Adult Supervision Required.

SIMPLE & QUICK TO USE!



Polystyrene Foam Blanks Blue

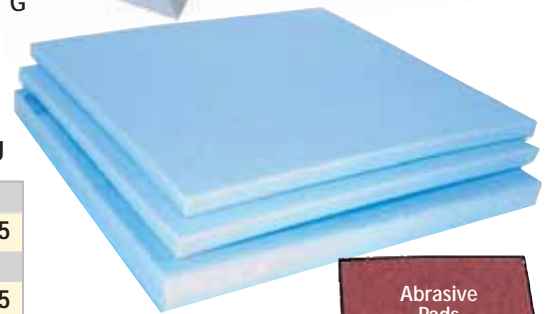
STOCK #	FIG.	T in.	W in.	L in.	QTY.	\$ 1-4	\$ 5+
391082	I	1/2	3	8	10	9.95	8.95
420557	C	1	2	8	10	9.95	8.95
750212	F		2	14	10	12.95	11.95
420217	A		3	8	10	12.95	11.95
420560	B		3	10	10	13.95	12.95
841114	E	2	2.5	8	10	9.95	8.95
420478	D		3	12	10	14.95	13.95
851199	G		4	12	10	15.95	14.95
750211	H	3	4	4	10	9.95	8.95

Polystyrene Foam Sheets ★

Hi-Density, Blue polystyrene.

★ Oversized Shipping Charges Apply.

STOCK #	FIG.	T in.	W in.	L in.	QTY.	\$
750166	J	1	24	24	5	26.95
750167	J	2	24	24	5	49.95
750168	J	3	24	24	5	63.95



Abrasive Shaping Pads
851197 100/pkg.....\$69





Learn about Injection Molding While Making Fun and Useful Products!



Manual Injection Molder

Economical choice for school technology programs with plastics units. Uses 700W, 117 VAC, 2/3 oz. capacity, 550W plastics heater, electronic heat control, 2,500 lb. mold clamp, GFI power handling, teflon coated ram cylinder, instructions and a one year warranty. Accepts most HONA and EMCO molds. Maximum mold size is 2-1/4 x 4 x 1 in.

570031 **\$1799.95**

KELVIN® Aluminum Injection Molds

Use low density polyethylene for these molds. Standard sizes.

- 570018 Checker **\$99.95**
- 570019 Golf Tee **\$99.95**
- 570020 Poker Chips **\$99.95**
- 570022 Front Wheel **\$126.95**
- 570023 Rear Wheel **\$99.95**
- 570129 Guitar Pick **\$99.95**
- 570130 Bottle Cap **\$99.95**
- 570131 Spinning Top **\$99.95**
- 570132 Blank, 4 x 2.25 x 1 in. **\$99.95**



KELVIN® Build Your Own® Screwdriver

Make your own screw-drivers with the tool handle mold, nickel-plated steel blades and polystyrene resin crystals (for the screwdriver mold **ONLY**).

- 570017 Screwdriver Tool Handle Mold..... **\$126.95**
- 570024 Slotted Screwdriver Blades, 100/pkg..... **\$41.95**
- 570025 Phillips Screwdriver Blades, 100/pkg. **\$59.95**
- 570027 Blue Polystyrene, 5 lbs. **\$39.95**
- 570028 Red Polystyrene, 5 lbs. **\$39.95**
- 570029 Green Polystyrene, 5 lbs. **\$39.95**
- 570030 Yellow Polystyrene, 5 lbs. **\$39.95**



Glue Gun Injection Molding

An easy and economical way to demonstrate injection molding. Students design and make a simple mold or a very complex molds and manufacture their own plastic products.



Glue Gun

Trigger feed operation allows the user to apply pressure while injecting glue plastic.

920041 **\$4.95 or \$4.45 ea./6+**

Plastic Glue Sticks

Plastic in assorted colors.

281729 6/pkg. **\$2.25 or \$1.95 ea./6+**

Mold Case

A two-part mold case holds designs sandwiched inside with injection hole and two screws to hold the pieces together.

280723 **\$17.95**



Silicon Grease Spray

For Mold Release
280725, **\$10.95**

Multiple Cavity Molds

Three-cavity base molds with 4mm screw insert.

- 280726 Cylinder Mold **\$39.95**
- 280727 Ball Nose Mold **\$39.95**



Aluminum Strips

Form random shapes within the mold between the two aluminum plates. Strips are 300 mm long x 2-3 mm wide.

280724 10/pkg..... **\$9.95**



Aluminum Plates

Assorted plates are 70x50mm.

282011 5/pkg. **\$4.95**



Warm and Bend Acrylic at Pre-Set Angles

KELVIN® Hot Line Acrylic Bender

The bender heats acrylic plastic making it easy to form. Place the heated acrylic on the Angle Bender to obtain crisp tight bends at any angle. Requires 110 volts.

841999 (Shown Below)\$295

Matching Angle Jig

841998 (Shown at Right)\$195



Acrylic Rods

STOCK #	D in.	L in.	COLOR	QTY.	\$ EA.
390904	1/16	8.75	Clear	40	9.95
390903		17.5	Clear	20	9.95
390912		20	Flrsct Red	3	7.95
390916		20	Flrsct Yellow	3	7.95
STOCK #	D in.	L in.	COLOR	QTY.	\$ EA.
390906	1/8	8.75	Clear	30	8.95
390905		17.5	Clear	10	5.95
390910		20	Flrsct Green	3	7.95
390914		20	Flrsct Red	3	7.95
390918		20	Flrsct Yellow	3	7.95
STOCK #	D in.	L in.	COLOR	QTY.	\$ EA.
750110	1/4	20	Trnlsct Red	1	5.95

Acrylic Sheets

Sheets measure 12 x 24 x 1/8 in.

STOCK #	TYPE	COLOR	\$ 1-7	\$ 8+
750014	Opaque	Red	8.95	8.45
750015		Green	8.95	8.45
750016		Blue	8.95	8.45
750017		Yellow	8.95	8.45
750018		Black	8.95	8.45
750019		White	8.95	8.45
STOCK #	TYPE	COLOR	\$ 1-7	\$ 8+
750008	Transparent	Clear	8.95	8.45
750009		Gray	8.95	8.45
750010		Red	8.95	8.45

Find More Acrylic Tools and Supplies at www.kelvin.com

Plastic Cutter

Cuts plastic sheets up to 1/4 in. thick and easily creates beveled edges.
390430\$4.95



Edge Scraper

Use to remove saw cuts from acrylic sheet edges.
390432\$15.95

MANUFACTURING ENGINEERING



Take a flashlight apart, put it together, test it, document it, and study it to learn about product structure, circuits, optics and mechanics.

KELVIN® Reverse Engineering: Flashlight Bulk Pack

Early in the process of developing a product, designers often research how people have solved similar design problems in the past. The old adage, in. why reinvent the wheel? in. applies here. Designers often use a reverse engineering technique that entails taking the product apart to see how it works and how its creators tackled its technical problems.

The KELVIN® Reverse Engineering Lab gives your students the opportunity to reverse engineer an everyday product and discover its designer's ideas and concepts. The activity includes step by step instructions for the student and teacher along with probing questions that direct the students' investigation of the product.

Classroom tested! Take a flashlight apart to see how it works and how it was designed. Includes: Flashlights, Student Study Guides and a Teacher Resource Guide. *NOTE: Actual project contents are subject to change.

841828 Bulk Pack for 10 **As Low As \$8.99 Per Kit \$89.95**



Find More **ENGINEERING PRINCIPLE KITS** in the **DESIGN** chapter on pgs. **D6-7**.

KELVIN® Packaging Design Challenge™

Students build four different types of boxes. They can decorate these boxes prior to assembly as a design activity. For a design challenge, have students design the product information, promotional words, packaging for a: Soap Box, Jewelry Box, Perfume Box and Game Box. After assembling their box, they design the decoration, logo, UPC code, etc.

Kit includes heavy pre-printed cardstock that students can use to build a box or container and decorate it according to criteria from the teacher.

841312 **\$3.45** or **\$3.25** ea./10+ or **\$2.95** ea./25+

KELVIN® Package Design 1

Design, model and evaluate a package design. Module includes: Design Portfolio, Package Fabricating Material, Tools, DesignGrid Card Stock and [25] Package Design Challenge Kits

841646 ELM, MS, HS **\$395**

KELVIN® Package Design 2: Adhesive & CAD

Design and test package adhesive and package design. Module includes: Tab+CAD Pattern Software, Measuring Devices and Non-Toxic Glue

841647 ELM, MS, HS **\$195**

841650 Plus PC..... **\$1,795**



KELVIN® EDUCATIONAL



Construct a Lamp out of Almost Anything!

KELVIN® Lamp Kit

A great product for mass production projects. It can also be used for fund raising. Students design and construct the base for this lamp out of almost anything—a stack of books, a mason jar or a creative wood sculpture. The kit includes: 6 ft. long cord with plug, push-thru socket, 12 in. lamp pipe, and [2] hex nuts. Requires harp/finial below.

840675 Kit **\$5.95** or **\$5.35** ea./10+
 842383 Bulk Pack of 15 **As Low As \$5.66 Per Kit \$84.95**
 280162 Harp/Finial, 10 in. long..... **\$3.75**



6D Design for the Sides, Top and Bottom!

KELVIN® Totem Pole Design Challenge™

Students begin by researching totem pole figures and then designing their own totem pole to reflect important events, people or places in their lives. Every part of a totem pole is significant and has it's own story. Northwest Pacific Coast Natives carved totem poles as records of the past in a culture that had no written language. Through groups of faces, figures and patterns stacked and woven, totem poles can record family members, relationships to other clans, family rights, achievements, stories and adventures.

Students must design all six dimensions (top, bottom and 4 faces) of the totem pole either using grid paper or, for more advanced students, CAD software. After drafting a final design, students transfer it to the wood blank. Using various wood crafting techniques, they carve out their totem pole. The totem pole can be sanded and then considered finished or taken even further by painting it.

Includes DesignGrid™ Paper and Wood Blank. Plans are not included to encourage student problem-solving skills. Great for Grades 3 to 8.

841150 **\$6.95** or **\$6.45** ea./10+

Design A Totem Pole Or Top